

SS-31 Peptide

Mitochondrial support, reduced oxidative stress, cellular health, and increased energy.

Benefits of SS-31 Peptide:

- Reduced mitochondrial oxidative stress
- Enhanced cellular health
- Reduced inflammation
- Improved cognitive health
- Cardiovascular protection
- Improved muscle performance
- Anti-aging properties

Reduced mitochondrial oxidative stress and maximize cellular health.

SS-31 (Elamipretide) is a small peptide that easily penetrates cell membranes, targeting mitochondria with anti-inflammatory and antioxidant properties. By stabilizing cardiolipin, a key component of the electron transport chain, SS-31 addresses mitochondrial dysfunction and boosts energy (ATP) production. This can benefit chronic illnesses like diabetes, heart disease, cancer, and chronic fatigue.

Uniquely, SS-31 crosses the blood-brain barrier and concentrates in the brain's mitochondria, showing promise for neurodegenerative and cognitive disorders like MS, Alzheimer's, and Parkinson's. It may protect against cognitive decline and memory loss with age. Additionally, SS-31 enhances physical endurance and addresses mitochondrial myopathy, which causes muscle weakness and other symptoms. It is the first peptide in clinical trials for this condition and has orphan drug status for Duchenne Muscular Dystrophy. It also minimizes cardiovascular risks, particularly age-related diastolic dysfunction.

Anti-aging research is exploring SS-31 for reversing mitochondrial dysfunction and premature cell death, addressing theories of aging. Preclinical studies suggest benefits for muscle aging, atherosclerosis, osteoarthritis, and glaucoma. SS-31 is given as a daily subcutaneous injection, has a good safety profile, and is well-tolerated with rare injection site reactions.



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